

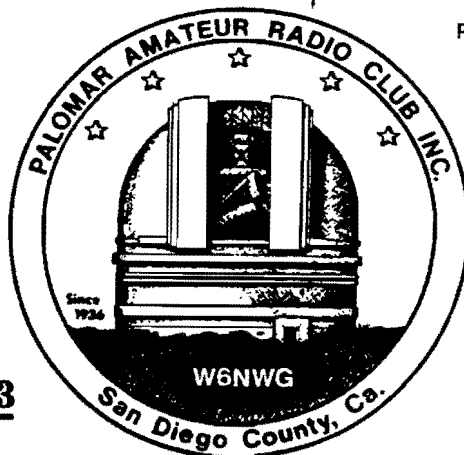
W6NWX W6NWX W6NWX W6NWX

Scope

W6NWX

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



APRIL ***** 1995 ** 59 YEARS OLD

Dues \$12, Volume XXI Number 4
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad
Safety Center(CSC), Palomar Airport
Rd.to N.on Camino Real(S11),east on
Faraday .25 mi,left to CSC,TB 14F6.

Talk-in on 146.73

OPEN REPEATERS / CLOSED AUTOPATCHES
PARC PALOMAR MT.REPEATERS(W6NWX):

PARC W6NWX Trustee: Ron-WI6B
Autopatches(4): 146.730-, 147.075+*
147.130+*,449.425-*

PKT: 145.052s PALMAR W6NWX-1 Open
146.700- PALRPT W6NWX-4 Emerg
BBS PARC PALBBS W6NWX-3 Open

145.05/07/146.7- KJ6ZD SYSOP
70 cm W6NWX-2 METROLINK Closed

ATV: 1241.25T(out)/Int-Comm 146.43s
input 915.0FM/919.25AM; PL79.7Hz

ALL COVERING 2,000 SQ-MI OF S.D.Co.
OTHER:224.380-*KK6KD; 224.9-*WD6HFR

146.175+*WA6IPD; *107.2Hz

***** C A L E N D A R *****

Apr 3 NOVICE/TECH CLASS starts CSC
and each following MonEve 7pm

Apr 5 Wed.CLUB MEETING, Carlsbad SC

Apr 8 Sat.PARC VE Tests Carlsbad SC

Apr13 Thu.PARC 7pm Board Mtg WB6IQS

Apr21 Fri.Deadline 4-SCOPE articles

Apr25 Tue.SCOPE mailed at Vista PO

Jun24-25 FIELD DAY EMERGENCY DRILL

Sep11 GENERAL CLASS starts at CSC

LAST MEETING

Attendance was 99 members and 7
guests for a total of 106.

It is interesting to note that
while PARC at present has no way of
knowing which of our members are
ARRL members, the sign-in sheets
indicate each month that about 68-
69% of our members who attend
meetings are ARRL members also.

George Mitchell, K6ZE, of
Scripts Institute of Oceanography

presented a slid program showing
life aboard various Scripts
Oceangraphic vessels which sail all
over the world. The sea life was
most interesting and pictures were
shown of shipboard electronics
(tube sets so the radios could be
easily repaired) with amateur radio
being encouraged aboard the ships.
For our DX club members, it was
good to see some of the places you
have worked and it was interesting
to note that they still used CW,
RTTY, as well as SSB.

SHOW & TELL had Ted-KD6AKT
demonstrating packet, Brian-KF6C
showing his computer controlled
BLACK BOX transceiver, and John-
KD6CDH with his recently
constructed "long-zero" decoder.
Members with Touch-Tone decoders
need to contact a control operator
in person or W9FQN at meetings
before using any decoder on PARC
repeaters.

ART-KB6YHZ & Anita-KB6YHY made
the coffee and supervised the drink
and goodies ..and members bringing
goodies: Duane-AA6EE, Bill-KM6PY,
Paul-N6ISC, George-K6Y6K, Jerry-
N6TCB, Becky-KE6BUE, Zack-KE6MQB,
Fred-KE6BBI, Norm-N6QQF, and Mac-
WB6GXR.

THANKS TO THE GOODIE BRINGERS
FOR HELPING MAKE THE CLUB MEETINGS
A BIG SUCCESS.

Goodies were great and you were
rewarded with "1" participation
ticket. =PARC=

NEXT MEETING - VPres. W6GIC

PLEASE COME EARLY and help set
up chairs.

Sybil Allbright, W6GIC, has an-
nounced that the program for April

5th will be April Moell, WA6OPS,
talking on amateur radio in
hospitals as patient therapy.
April is married to Joe Moell,
KØOV, who writes HOMING IN
(direction finding) for 73
magazine.

(S)HOW & (T)ELL: See Sybil-W6GIC
B4 meeting to reserve show time.
Ted-KD6AKT will again have a
portable packet station in
operation for those who are newly
interested in packet or have packet
questions and we will probably have
Brian, KF6C, back with his computer
controlled BLACK BOX transceiver.
Ken-N6ALA will have a 20T ATV helix
and Art-KC6UQH will have his dual
ATV helix.

- P A L B B S P O R T 1 3 -

Our new PALBBS is progressing
nicely and Norbert-KJ6ZD, SYSOP,
has been operating a first class
operation with transceivers on
145.05, 145.07, and on the new
packet 146.7(-) repeater. He also
has an High Frequency port where he
is able to send packets on 20
meters.

Norbert has announced that he
has added some new functions to
PALBBS which will be activated dur-
ing the first part of April (prob-
ably by the 1st).

The first addition is PORT 13
which can be used for many differ-
ent modes of operation depending
upon the commands given to it. This
new port was only made practical by
PARC's addition of the 146.7(-)
duplex repeater which allows packet
operators to access PALBBS in real
time with only micro-seconds delay
between your transmission and its

reception at PALBBS.

CW contacts are now possible using PALBBS! This is made possible by the user specification of a FREQUENCY, Power level up to 1,000 watts, selection of MEchanical or Electronic fist, and the Speed of Transmission (i.e., FR14.025, P0500, ME, SP13).

Your packets which are sent in ASCII format are sent to Norbert's spare 186 computer which controls a packet TNC in the CW or RTTY mode. Reception is the reverse of this going from the 186 to PALBBS and back to you. Another option is to specify RTTY and your transmission will be in RTTY format or AMTOR.

The 186 also has a voice algorithm in it which allows SSB transmissions from PORT 13 except that you need to customize the voice picking various parameters which make your "packet voice" sound like you want it to. It is suggested that you have a monitor receiver at your QTH to check on voice quality so that you pick something distinctive and to your liking. Crude parameters are: (MA)le, (FE)male, (HI)gh, (LO)w, (SO)uthern, (NO)rtheast, (CA)lifornia, (SP)anish accent, (NE)w York accent (like Dennis-N6KI, & others available in future releases). Each of the parameters are specified with a number of 1-5 depending upon how much of the parameter you would like to have in your computer generated voice. For example: MA5, FE0, HI4, LO2, SO4, NO1, CA2, SP5, NE2, etc. A semi-hesitating mode will be made available sometime this summer along with a "I have a COId" mode with various additional parameters.

The 186 also has a "voice recognition" algorithm which does an excellent job of decoding English but it sometimes needs modification according to the person that you are in contact with and this is where it is good if you have your own receiver and can hear the other station so that you can make the same modifications on their voice as you did on your voice in the preceding paragraph. We are trying

to get hold of a program which can be adapted to translate Spanish to English and back again so if anyone knows of such a program, contact Nash-W6HCD, net control of the Wednesday evening Spanish Net.

If you have many things that you say over and over again you can create a file which is stored at PALBBS and can be called up for transmission as needed during the contact (signal report, QTH, station configuration, what you did this morning, etc).

Of course, the advantage of this system is that if you have antenna restrictions or not enough money for expensive equipment, you can use your one watt HT packet station to work the world with all modes using Norbert's 2kw all band, all mode station with log antennas and computer interfaces.

Norbert hopes to add to PORT 13 an ATV station furnished by Art-KC6UQH, PARC's club president. This project is moving a little slowly since Art has become president of PARC.

The system is fairly simple. The user scans in a series of photographs into his computer or has someone scan it into their computer and then transfer the scanned pictures onto a disk for your computer. The scanned file is examined and all dots (pixles) are converted over to "."'s (periods) which then can be sent by your packet station to PALBBS where the 186 converts the periods back to pixles and then this is sent to PARC's ATV station on Palomar Mountain (constructed by Bill-KB6MCU).

Your reception is a little more complicated since the voice recognition circuit has to convert the voice sounds over to the printed form to overlay on the ATV signal and the pixels being received from the ATV station must be sent via packet to your station through PALRPT (W6NWG-4), 146.7(-) on Palomar Mountain with the addition of a compression routine which takes advantage of a little known IBM routine that allows zero (0) pixel space between sent characters

and also allows for line height compression in the vertical direction. This command is automatically sent before all PALBBS ATV pictures sent to you so that your IBM sees the "."'s (periods) being sent close to each other (touching each other) with the line's vertical space condensed so that each line is one (1) dot tall. Obviously, this is really what TV is. It is a series of dots running across the screen with the next row of dots immediately below it. Hence, you will see the ATV picture on your computer screen. According to John-KD6CDH these little known line compression commands are not available on non-IBM computers.

This method of generating ATV allows ANYONE with a packet station to participate in PARC's ATV endeavors.

The sending of ATV pictures was first suggested by Paul-KB5MU, and Bill-KC6YOX. John-KD6CDH did the specialized programming needed for synchronization of the dot frames being sent with IBM compression routines. A patent is being applied for in the name of PARC and contacts have been made with MFJ and several other manufactures for PARC royalties on PARC's IBM BBS program modifications.

Norbert needs to be complimented by the packet community for providing the addition of CW, RTTY, AMTOR, SSB, and ATV to PALBBS. This is the first packet BBS in the United States and the world to support all of these modes.

The PARC Board has voted to present to Norbert at the next club meeting a plaque for his outstanding contributions to the Packet community of San Diego County. They have also voted to provide instruction sheets at the next club meeting for free to all asking for the 115 page booklet.

This project was entirely funded by PARC's profits from last years Ensenada trip which netted (Cont.pg11).





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**ORGANIZING A NEW
IBM CLONE USER
GROUP**

NOT Ham Oriented
No Packet, no RTTY

Meets 2nd Wednesday in
old City Hall in San Marcos
at 7:00 p.m.
Call 727-7415 for details

- MAR BOARD MEETING -

BOARD: KC6UQH W6GIC KC6YSO KM6WG
WB6IQS W9FQN KC6WAN *AB6QT WB6PKK
(*ABSENT). AB6QT has been attending
night school.

OTHERS: KB6MCU (training-ATV),
KD6JXY (Newsline).

The meeting started at 7:09 and
ended at 9:29 pm. (WOW!)

We munched on sweet morsels
provided by John-WB6IQS (low cal
yum-yums). Club members are invited
to attend Board meetings to observe
the Board of Directors in action
..or non-action ..and receive one
activity pt. for attending.

- SECONDS -

DISCUSSED: \$3550 EquipBal,

\$3870 Gen Purpose, \$4493 PrePd,
\$154 Post Office; Shifting checking
account funds over to savings
account; Shown 146.7 duplex packet
repeater; Packet names W6NWG-0 to -
5; Novice Tech classes; Letters to
speakers; Electricity at site;
SCOPE payment probs; Membership
problems; Technical programs;
SWIECH ads dropped; Emergency
stations; Membership 828; 501(3c)
status; PARC 5 stars; SHOW & TELL;
SCOPE items; ATV control; APRS
system; & Autopatch computer logs.

APPROVED: Next Board Meeting at
John-WB6IQS's QTH; May and June
meetings at Stan-W9FQN's QTH
because of Field Day; July meeting
at Sybil's QTH; PARC new stationary
by Jo-KB6NMK; \$25 for Rain report;
& Meeting Programs.

Other items brought up by
committee heads were approved but
not voted on since they fell within
their normal duties as committee
heads and there were no objections
voiced.

PARC members are reminded that
equipment monies are generally
depleted during the warmer months
and "pile up" during the winter
months when there is less activity.
Pre-paid dues are for the club
years following July 31, 1995.
General purpose funds are operating
funds used for normal club
activities with almost \$1,300 being
allotted to the remaining
Newsletters.

Total available funds tend to
drop to their lowest point on July
31st of each year limited by the
amount of pre-paid dues and unspent
equipment funds.

Contact a board member 4-info or
C Secretary. 4-minutes. =PARC=

PRESIDENT's WAVELENGTH KC6UQH

Having passed the first day of
Spring our attention is now focused
on the annual refurbishing of our
Repeater site and preparations for
Field Day. The Repeater site work
parties give our members an oppor-
tunity to see our equipment they
use, while assimilating fresh moun-
tain air. We have a number of pro-

jects planned for this year and
several new proposed projects as a
result of our last technical meet-
ing in February.

Stan, W9FQN, is our Repeater
Site Chairman. He oversees the
Land, buildings, antenna towers,
work parties, utilities, con-
struction permits, and road access.
Stan did all the structural engi-
neering for the tower permit, and
excavated the ground for the base
of the Tower. He also supervised
the pouring of concrete and re-bar
for the base. Stan makes many trips
to the site each year and
supervises all work parties. He did
the engineering and supervision of
our lightning protection system.
Stan also is seen climbing the
tower more than anyone else.

John, WB6IQS, is our Repeater
Technical Chairman. John has been
responsible for our Repeaters for
15 years. In addition to maintain-
ing the old 146.730 repeater he
built two packet repeaters and the
old 449.425 "MSY" repeater as well
as the control system that is still
in use. John has appointed several
Club members to build and maintain
our Repeaters. John is still
responsible for the 145.050 packet
and the 146.700 (old 146.730) dig-
ital repeater. Thank-you John.

Mike, AB6QT, has built both the
current 146.730 and 449.425
Repeaters. He also has built a test
fixture for our controller cards.
Mike also helps maintain all the
repeaters as he lives on Palomar
Mountain. He also helps with the
work parties and is a great asset
to our Club. Thank-You Mike.

Jerry, WB6FMT, has built two
generations of the autopatch system
including spare boards and a test
fixture. Jerry has built a very
unique system and is also a great
asset to our Club. Thank-you Jerry.

Paul, KB5MU, and members of
SANDPAC modified the 70 cm packet
Repeater. John, WB6IQS, built the
9600 Baud repeater and is responsi-
ble for the maintenance. (Metro-
Link) Thank-You Paul, SANDPAC and
John.

Mike, KD6VHI, has spent many

weekends cleaning up the site, brought his own tractor to remove brush and leaves, dug the hole for new building he obtained and delivered to the site, helped with tower work, and obtained a new 5000 AHR battery bank that is being kept under charge at his QTH until this summer when we will install them at the site. Mike has obtained a great deal of hardware for the batteries and the control circuit wiring between buildings he installed at the site. Thank-You Mike.

Bill, KB6MCU, has built and maintains both an ATV Repeater and a spare 2 Meter Repeater that is currently being used on the 147.130 frequency while the 147.130 repeater is being rebuilt. The ATV fund of which Bill is a major contributor has spent almost as much as the Club paid for the whole site. ATV equipment is expensive and the system we have on site is well constructed. Thank-You Bill.

Dave, KD6EBY, who works on Palomar Mountain performs weekly checks on our battery system, adds water and adjusts the charging system to maintain the float charge voltage. Thank-You Dave.

Dave, KC6YSO, is almost always part of the work parties. Dave fills in where ever necessary and with Bill, KC6YSO, will be installing a new 6 Meter Repeater. Thank-You Dave.

Marvin, WB6PKK, is working on new software with frequency deviation checking feature for the 145.05 packet node.

I have been performing maintenance on the 147.075 and 147.130 Repeaters.

In addition the following members have donated their skills and time to help us with our Repeater site this past year: Alfredo-KD6TYX, Benton-KK6LX & Dorothy, Blanca-KE6KTE, Bob-WA6QQQ, Brian-WB6CYT, Charles-KD6FQS, Chuck-KE6CDJ, Dale-KC6WZI, Dan-KD6DKM, Dave-KD6OBG, David-KC6VEC, David-KE6DRA, David-KC6YST, Dennis-KE6MQC, Dennis-KE6HZF, Dorothy-KA6NNB, Fred-KE6BGI, George-KK6KD, Gene-WB9COY, "J"-KD6PBH, Jim-N06E,

Joe-N6YMD, Joey-NU6L, John-KE6JOI, Larry-N6VDZ, Ramon-XE2TRO, Ruben-KB6JGG, Salvador-XE2UGF, Skip-KD6RFQ, Steve-KD6ZST Sybil-WA6GIC, Tom-KN6BN & wife, Tom-KD4UFD, Tom-KE6HRL, and Zac-KE6MQB,

I hope more of our membership can find the time to join the work parties this year and the warmest Thanks to all those who have helped us in the past.

* A * FIVE * STAR * NOTICE * !

* We are mounting a serious effort for Field Day this year.

* Field Day this year will be at Stan's, QTH (W9FQN).

* Ellen, N6UWW is our Field Day Coordinator this year. GO ELLEN !

* * We need your (everyone's) help this year. Please contact Ellen and make this year a successful Field Day for * YOUR CLUB *
* P.A.R.C. * *

* OPERATORS * TECHNICAL * SETUP *
* TEAR-DOWN * EQUIPMENT

***** P.A.R.C. WANTS YOU !! JUNE 23,24,25 1995 CATEGORY 5A ***** 73, Art-KC6UQH =PARC=

M E M B E R S H I P KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

3yrs= KJ6FN-Ken

2yrs= KE6LBX-Dan Walker KJOP-Don WA6B00-Keith KM6PY-Bill N6TEP-Chas
1yr= KE6BX-? KE6OHT-Victor

KE6BBX-Jim KE6BUE-Becky W6MYV-Gordon WA3W00-James Juan-Lopez KE6QIQ-John AB5XE-Erwin KE6DZK-Bob KE6PMR-Xiaonan N6EDV/AA-Scott KE6QBW-Brian KN60L-Dan KE6QXM-Art W8M0F-Howard KA6PSG-Lee KE6CJQ-Bill KE6NPP-Ken AC6HZ-George K06IQ-Eric WN6S-Ron KC6JBQ-Vesta KE6NXY-Tom KE6NLZ-Leon KE6QIN-Jim K16KM-John KF6TG-Larry KE6FGG-Armand WA5UZM-Bob KE6DLO-Josh AH6IR-Rick KD6JPO-John KD6UBB-John KD6UBC-Kim

CHANGES: Assoc. Les Silva to

KE6QIM.

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

The following members received ONE (1) point for sponsoring a new club member: N6NNI (this is a correction of the reporting last month of N6INN who is a club member in Salt Lake City), and again, N6NNI for March.

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

- N E W S - etc.

Contributions by the 20th)

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

Harry-WA6Y00 has taken over the VE testing team in Escondido after many years (10) of faithful service by Tom Clark, N6CLO. Call Harry at 743-4212 for EARS testing information in Escondido. =SK=

Jennifer-KM6WG, PARC's YL treasurer, came up with a harmonic treasurer of her own: Joel, 7 lbs 2oz on 2-3-95. Of course, Jess-N6YRS, is the proud OM. =SK= Jo-KB6NMK recently passed her GENERAL exam and on the last Saturday in March she passed her Advanced with Harry's VE team in Escondido. =SK=

Joe Bonando, KC60XU, of Valley Center has done it again. Almost half a page of pictures and story in the April 1995 issue of QST with his WORKED ALL STATES T-shirt! He also has his California car license plates on the T-shirt. =SK=

The Ramona Outback Amateur Radio Society has been holding Hidden Transmitter Hunts once a month starting at the Ramona HS sometime after 1pm. Check with Jo-KB6NMK for the latest information or Stan-W9FQN. PARC members are invited to take part in these T-Hunts. =SK=

Jerry-WB6FMT sent a nice picture of snow in Denver during his trip. =SK=

Jennifer A. Thieme
KM6WG

Bookkeeper
Accountant

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- AUTOPATCHES - W9FQN

Several new members (AND SOME OLDER) have experienced problems in not being able to get a "dial-tone" after dialing the correct autopatch codes (ie XYZ) which even show up correctly on the computer monitor station in Valley Center.

If these 3-digits are dialed too slowly, several TIME-OUT timers can get you. First, if the second digit (Y) is dialed several seconds after the first digit (X), the system time-out timer on Palomar Mountain will kill the patch at that location. If the third digit (Z) is dialed toooo long after the second digit (Y), then the remote local patch will kill the patch. The digits XYZ must be dialed all within several seconds of each other or the patch will be killed.

The computer monitor in VC has no timer so it will "see" the correctly dialed codes from Palomar Mt. even if the third digit is dialed several seconds after the "killed" autopatch.

RULE: HIT THE FIRST DIGIT A LITTLE LONGER THAN USUAL AND THEN DIAL THE REMAINING TWO DIGITS WITHIN TWO SECNDs! =SK=

The club's autopatches are available to club members who use them properly. If you do not use them properly, privileges can be revoked.

DO NOT CALL A PLACE WHICH HAS MUSIC! PARC DOES NOT ALLOW MUSIC ON AUTOPATCHES AND YOU, AS A ASSISTANT-CONTROL OPERATOR FOR YOUR CALL, ARE RESPONSIBLE IF YOU CALL A PLACE OF BUSINESS OR AN ANSWERING MACHINE THAT HAS MUSIC. TERMINATE THE PATCH IMMEDIATELY.

There are ways of cutting out the music so it is not heard over the repeater. When the music starts to play, press your PUSH-TO-TALK (PTT) switch and say, "YOURCALL (ie N6YZZ) running autopatch on REPEATER FREQUENCY (ie 147.13) at TIME (ie 2:15) --or something like that to "chew" up some time without leaving a dead carrier on the frequency. Then release your PTT

for an instant to see if the music is still there or someone is answering the phone. If the music is still there, then repeat what was said before again. Keep repeating this sequence until someone answers or you decide to hang up. In this way there will only a fraction of a second of music played at the end of each of your transmissions and you have effectively blocked out 99% of the music from the repeater. The best thing is not to call places where you expect music.

AS AN ASSISTANT CONTROL OPERATOR FOR THE AUTOPATCH BEING RUN, YOU ARE RESPONSIBLE FOR EVERY WORD SAID AND FOR EVERY SOUND COMING OVER THE PHONE LINE BECAUSE YOU HAVE COMPLETE CONTROL OF WHAT IS GOING ON. IF YOU CANNOT ACCEPT THIS RESPONSIBILITY ACCORDING TO PARC RULES, THEN DO NOT USE THE AUTOPATCH SYSTEM (If we told you once, we told you a hundred times)!

If music is played on YOUR autopatch call, YOU ARE RESPONSIBLE FOR IT!

There is no excuse for a member having music on your home phone answering machine or for "non-standard" answering material on it.

PARC would hate to have the number you are calling PLUS your home phone put into the computer BLOCKING LIST so that the number(s) cannot be called again. =SK=

From the computer monitor log:

No.	Time	sec.	code	number	down
318	6:57	19	XYZ	537-5139	#
319	6:57	42	XYZ	534-139	#
320	6:58	41	XYZ	537-4139	#
325	12:47	..	XYZ	222247261*	
355	21:32	54	XYZ	749-0276213#	

This sequence (#318) apparently shows a good number dialed of 537-5139 but the length of the patch (19sec) and a re-try right away probably indicates a wrong number dialed. No.319 was an incomplete number which the person waited on to hear the ringing which did not come because one of the digits was missing. We are now starting to see some of the same digits in #319 as #318.

No.320 probably was the correct

number indicating that in 318 the person hit a "5" when they really meant to hit a "4" while in No.319 it can be seen that there probably was a quick fade which took out the "7". The good thing about this sequence is that the caller shut down the patch each time with a "#" so that unwanted digits did not get added which could cause more problems with the next dialed number.

No.325 shows an example of someone probably in a very poor location possibly holding the "2" too long with probable "mobile flutter" resulting in multiple "2"s and then they did not close down the patch correctly with a "#" or there could possibly be another explanation for the last two places.

Computers and the telephone company cannot guess at what your intent is nor can they make up for your poor signal so you need to have a strong signal, sure hands, proper procedures, and good numbers all dialed within a given time frame to make it all work properly.

No.355 shows someone making a successful call and the three digits on the end (213) of the 7-digit phone number probably mean that it was a business call with an extension number, a call to a paging service, or a home phone where the answering machine is being interrogated with the TT's 213. YOU ARE RESPONSIBLE FOR EVERYTHING THAT COMES BACK TO YOU ON YOUR ANSWERING MACHINE (business calls, 4-letter words, love comments, etc). PARC DOES NOT WANT YOU TO INTERROGATE YOUR ANSWERING MACHINE UNLESS YOU KNOW YOU HAVE A SPECIFIC MESSAGE FROM A ==FRIEND==. YOU ARE RESPONSIBLE FOR ==EVERYTHING== THAT IS BEING SAID FROM YOUR ANSWERING MACHINE EVEN THOUGH ==YOU== ARE NOT SAYING IT! =SK=

The autopatches were turned off Sunday evening, March 12th, for 3+ hours because of non-technical problems. =SK=

It is really interesting to

observe how many amateurs who are members of ECRA come up on our 147.130 repeater and try to access the autopatch system using ECRA codes. They can be spotted easily because you can hear ALL of the digits being dialed and the repeater drops when they are finished dialing. They probably think they are on 147.030 which IS an ECRA repeater. =PARC=

NEWSLINE / RAIN Paul-KC6JXY

Club members are encouraged to listen to the THIS WEEK IN SAN DIEGO net each SUNDAY EVENING on 146.730 at 9pm when recorded items of interest are played as well as announcements of PARC nets and other non-PARC amateur radio club meetings.

NEWSLINE- for almost a year PARC has been playing NEWSLINE which comes to us from Pasadena, CA. The report carries items of interest to all amateurs with a lot of the news coming out of ARRL, FCC, and local and national politics of amateur radio. I record this program by calling the NEWSLINE headquarters.

RAIN REPORT- this is the Radio Amateur Information Network from Illinois and PARC now subscribes (\$25) to the weekly tapes on a one year trial basis. The RAIN report offers a wide variety of information that would not be considered mainstream ham radio news but should be of interest to club members.

For the past month we have been running both reports to see which report club members like best although there is the possibility that we will run both for the present.

These broadcasts come very close to what the FCC calls BROADCASTING (and frowns upon) but lumps this type of broadcast into a special area which is permitted such as: club announcements of programs, WIAW CW & SSB broadcasts, road condition advisories, weather advisories, public service type announcements, etc. The FCC is

aware of the NEWSLINE and RAIN reports being aired over repeaters throughout the USA.

The FCC frowns upon ONE-WAY broadcasts (you are in contact with no one) with the previous mentioned exceptions.

If you need a repeater during this Sunday evening net, please use one of the other club repeaters. =PARC=

REPEATER TECHNICAL WB6IQS

PARC'S RTTY duplex repeater on 146.700(-) has entered phase II of its modification to change it over to a full duplex packet repeater.

Many years ago PARC used to allow RTTY stations to broadcast RTTY signals on the 146.730(-) repeater with no modification to the repeater. The RTTY signals are composed of two tones and these were just repeated thru the repeater.

The 146.700 repeater, which is really the old 146.730 repeater bought by the club in the mid 1970's and used until 1994, was set up to intercept the RTTY tones and to convert them to DC pulses which in turn controlled two RTTY tones to regenerate the RTTY incoming tones. This meant that sloppy incoming tones were cleaned up and re-broadcast at the proper two frequencies and a known amplitude.

Phase I of the conversion of the 146.700 repeater to packet was nothing more than using the RTTY regenerator with an adjustment of audio tones to re-broadcast the packet tones. The phase I test indicated that the packet repeater idea was feasible although not 100% successful.

Phase II is a modified TNC-2 which uses the TNC-2 re-generator circuit to pass packets directly to the transmitter AS THEY ARE BEING RECEIVED. Paul-KB5MU researched the modification circuit for us.

Nice picture of Mike Breauz, AC6FM, and his "shack" in HANDI-HAM newsletter for Winter-95 along with comments on how he got into amateur radio (HANDI-HAM '95).



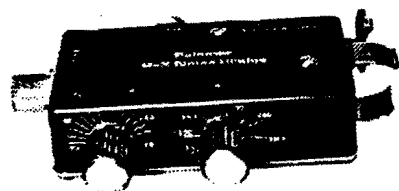
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F O R E S A I L mwmwm



Can we rope you in?

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

***** N E W A D S *****

Contact Dave-WAGHQM 53-2605 in Encinitas for old tubes which the club has stored at his QTH. Dave needs someone to replace him sometime soon. Any offers? A non-club tube bank is Bob-AF6V (145.32, 224.74, or 449.5).

(3-21)Atlas 210X solid state 100w xcver 80-10m & complete Hustler mobile ant 80-10m \$295; clean 2m hand-held Yaesu FT209H w/spare bat pack regular and quick charger, 12v lighter adapter cord & external speaker mike \$195; new Palomar R-X noise bridge \$30; never used Alliance HD73 rotor rated 10 10.7sq ft dual speed \$125; new Orbit rotor 360 for TV or 2m beam \$35; noise filter DSP-59 Timewave Tech in series w/spkr \$30; BK Digital Bench multimeter 2831A and BK scope 1540P 40MHz dual trace make offer; 10hz to 36Hz handi-counter Opto electronics mod 3000 make offer: Wayne *6RWV 724 0777 Vista.

(3-18)YAESU FT-208 2m HT Ex Cond drop-in chgr/pwr wall chgr, mic, 2bat, no PL, offer?: Jerry WB6WDA 674 0874.

(3-16)ICOM 2PAT HT w/DC car charger/sup \$285: Mike K6PZN 693 3915 SD.

(3-10)ICOM IC-751A w/PS-35 internal pwr supply new in box \$975; Drake MN-75 antenna tuner 160-10m 2kw \$275: Allen N7AMR 434 5656.

(3-2)Heath HM-2102 VHF SWR/wattmeter \$30; HyGain 2DBQ-S 80/40m trap doublet (new) \$50; Yaesu YC-355D 200MHz freq counter \$60; Duane AA6EE 789 3674 Ramona.

(2-3)MFJ-1278 SSTV upgrades \$150; Kenwood HT TH-21BT \$100; 2ea Atinco 2m amp ELH-230D II 3/5w in \$35ea; Bencher Iambic key \$25; Micronta VSWR meter \$20; Jim WB7BDK

428 1543.

(2-22)Hy-Gain 4el mono bander beam/balun \$100: Paul WA6IPF 726 5007 Vista.

(2-1)Estate; Palomar M-827 SWR & PWR meter \$80: Duane AA6EE 789 3674 Ramona.

(1-14)TEMPO S-1/S-5/S-2 HT operating manual FREE at next club meeting: Stan W9FQN.

*****DLD ADS PRINTED ON ODD MONTHS

*****WANTED*****

"A Fool for all seasons"

(3-23)Is Kester "44", Sn60, Flux "44" resin, core flux content 3-C good for radio solder work?: Stan W9FQN 749 0276.

(3-5)Kenwood AT-200/230/250 tuner; 2m/220 or 2m/440 mobile xcvr: Duane AA6EE 789 3674 Ramona.

(3-2)All types of Collins speakers and accessories (old/new?): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(2-22)Mono bander 15m beam: Paul WA6IPF 726 5007 Vista.

(2-15)FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

(2-1)Manual for Heath HW-101 xcvr; 2m 20-50w mobile xcvr; 3el tri-band beam: Duane AA6EE 789 3674 Ramona.

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 Ocsd.

***OLD WANTED PRINTED ON ODD MONTHS =PARC=

 F I E L D D A Y 1995 N6UWW

The countdown is on ..less than 100 days until the annual Field Day contest. The object of Field Day is to work as many stations as possible, to learn to operate under abnormal conditions, to develop skills and equipment for emergency preparedness, and to acquaint the public with the capabilities of amateur radio.

FD scores let the ham community know the strength of our effort and are accumulated as follows: phone contacts (1pt ea), CW contacts (2pts ea), bonus points (100pt/category) can be gained in the following ways -public relations, media coverage, emergency power, public accessibility, info booth, natural power, message origination (msg to SM or SECC), message relay, packet, satellite, and UHF/VHF contacts.

There is someway each member can contribute to the club's FD effort. We're counting on you to be a part of the effort, whether it be in setting up Friday, June 23rd and Saturday 24th, operating and/or logging Saturday 24th at 11am to Sunday at 11am (multiple shifts available), feeding the crew by keeping the coffee perking, flipping the burgers or pancakes, etc, or tear-down on Sunday 25th at 11am to ??

Might you have a motorhome that could be used as an operating position? How about a generator? There is a lot to be done and 800 of us to do it so contact Ellen-N6UWV at 630-0950 and sign up today to contribute to PARC's Field Day on June 24th to 26th.

Set-up coordinator is Wayne Dewey, WD6AHX (729-311), and VHF/UHF coordinator is Bill Bennett, KC6Y0X (433-4626). =PARC=

S.D.Co.TRAFFIC NET(SDCTN) N6TEP

The following letter was written by me to the MARS Director of region five when they issued a directive that only MARS stations can deliver MARS traffic:

"It has been brought to my attention ..that the SDCo Traffic Net operated by PARC thru the W6NWG repeater on 146.73 by a number of net members, that by directive of the MARS hierarchy, overseas MARS traffic between Navy and Marine Corps personnel and their families is now prohibited to be distributed for phone delivery to amateur radio nets stateside, other than by MARS operators who must now deliver ALL

TRAFFIC THEMSELVES. A good proportion of such traffic has traditionally been delivered by non-MARS amateur traffic nets for at least 2 decades, and we are wondering what has happened to suddenly terminate this most valuable asset to the MARS amateur radio effort.

Part of the skyrocketing volume of this traffic - sometimes several hundred messages a day, with backlogs piling up - has now been reported to be unduly delayed, because the few MARS stations in Southern California are apparently unable to handle such excessive traffic volumes in a timely manner without help from the rest of the radio amateur community. ..PARC also pays for phone patches that allow message delivery through the telephone system as a public service free of charge to the operator, anywhere in the 619 area. MARS operators are often obliged to pay toll charges for calls outside their local phone prefixes - something that could become an unfair burden to them if the present traffic volume continues to climb. This is why we feel that a shared burden is a lighter burden to each participant, and that the delivery system used to date was a good one.

For this reason, we are asking why in the present climate of budget cuts and scrutiny of every military expense, steps are being taken to endanger a large pool of free service to a valuable morale boosting activity, making it vulnerable to the negative consequences of becoming less effective and therefore dispensable. MARS, being based on FCC licensed amateur radio operators, in our opinion needs all possible cooperation from the rest of the radio amateur community which is willing and able to supply it.

In the interest of our men and women in the armed services, and their families, we request your cooperation in shedding some light on this problem and possibly helping with the necessary damage control. Should this be beyond your scope, we propose to bring the

problem to the attention of higher authority for consideration, to see what, if anything, can be done to restore the system to normal function."

EDITOR's NOTE: Charles and crew have done a great job delivering messages throughout the county serving Navy and Marine Corps personnel during the action in Samala and the Gulf war as well as normal traffic to service men and women stationed all over the world. THANKS to all of PARC's Net Managers and Net Controls over the years for their dedication in seeing that the MESSAGES get delivered! =PARC=

V E T E S T I N G A A 6 O M

Test results for March 11.

Tested 12 candidates for 16 elements with 15 passes.

Tech/Gen->advanced: WA6TIL N6ISE KD6CKR

None/Novice->Tech: KE6MRT, Joe Saei, David Ward, Bill Herrera, & Tom Seymour.

Other: KB6WCF(4A), KD6CKT(4A), Cliff Manning(3B), & Forrest Packard(2).

TEST TEAM: KB5MU AC6FM KI6JM WA6HUC KE6VX AA6OM.

73, Rusty-AA6OM =PARC=

- AGO6O - K6HAV/KI6JM/W9FQN

(4-90)(5yr) ..Alexander Battery Co. program ..KB6NZA passed Extra exam ..Mark-KC6COD to AA6TR ..PERSONAL COMPUTER net operational ..1st mention of ARES/data packet program ..Craig-N6ATQ found stuck xmtr on 146.13 in Escondido in 30min (mic jammed) ..Jo-KB6NMk, Carl-N6NZX and Mary-KB6NZA tied at 131 for most ARES Sunday morning check-ins ..Dora-KE7DR to move back to Arizona ..10m link on 147.130 and patch on it is "private" (opened to club members later on) ..Ray-KK6CA made up some code tapes for the club ..comments on "NO CODE" license .. =PARC=

Harry Turner (SK) holds the world record at 35wpm using a <hand> telegraph key (de ARRL)

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Pete W3ARU's XYL

***** NEWS *****

More than 200 amateurs provided communications in the Kobe earthquake January 16 that killed more than 5000 people and left tens of thousands homeless. 400 of the 600 relief centers with 240,000 evacuees were served with communication from amateurs using over 200 handhelds for 430 and 1260 MHz (de A1-N6GNB). (LA could even have more dead, injured, and homeless if the LA quake comes during the day and especially during commute times. How will SDCo respond? -Ed).

Phil Fichte, KD6UAF, a new club member lives at North Island Navy base and works on a rotating schedule on San Clemente Island. He is on 2m and Packet and wants to get his General license. He is rebuilding a Swan 500C (de KD6UAF).

Xiaonan Zhang, KE6PMR, would be interested in talking to other club members on 147.13 who speak Chinese. =SK=

ARRL has announced in March QST that a free year's ARRL membership can be yours by signing up four new members. Details on this membership drive are on page 176 of April QST. =SK=

The 146.73 repeater was used for emergency traffic during the last big rain when a water company truck was off the road and needed help.

Kenwood now has TNC plugs for TM-251A, 733A, 255, and 255A's (de A1-N6GNB).

***** NEWS *****

There is beginning to be quite a bit of interest in the SDCo area in APRS with about 18 local stations and one mobile popping up on computer screens which show packet station latitude and longitude using a shareware program and GPS units. Some of those participating are KM6AW, N6CBB, KE6CBC, KE6CBL, KD6CNI, K1CT, KM6EK, WA6GAH, WA6G00, KF6HU, N6JZE, WB2KIH, WA6MHZ, KI6MP, WA60DQ, K6PD, K6QJP, K6RYA, KM6VQ, K6VV, W6WYN, AND KF6XY. =SK=

Hams were not allowed to transmit 51 years ago because of WW-II! In WW-I hams had to dismantle all of their amateur equipment but later in the war were allowed back on the air by showing proof of citizenship and agreeing to be fingerprinted! (HAM-STIRS).

Electronic filing works! Thanks to this new FCC program begun late last year, a prospective ham can learn his or her new call sign and be on the air in as little as two weeks after passing the examination. Call the FCC's Gettysburg, Pennsylvania office (800-322-117) to determine your new call sign. (de ARRL Letter).

Custom ham radio call signs will soon be available from the FCC for a fee: \$7/yr or \$70/10yr. =SK=

FCC has adopted rules for a new Emergency Alert System to replace today's Emergency Broadcast System. By July 1, 1996, radio and TV broadcast stations must install new gear. Also 92.1 KOWF, Escondido, 6kw power proposed and 95.7 KKOS, Carlsbad to change from 95.9. de CGC Communicator 1-95.

"There is nothing more useless than a perfect memory of obsolete knowledge" coined from the sub-plot of the MCA movie "DAD" starring Jack Lemmon and Ted Danson 1990 (de Ivan-N60LE).

The electronic version of Part 97 of the FCC Rules, available on the ARRL BBS, the ARRL info server, and on-line services, has been updated to reflect revisions that went into effect December 20, 1994 (de ARRL Letter).

***** NEWS *****

KJ6ZD - P A L B B S - W9FQN

***** NEWS *****

PALBBS is a FULL SERVICE BBS and you can find most things on it that you will find on other BBS's. In case of emergency we suspect that PALBBS will be used by ARES to get PUBLIC SERVICE messages in and out of SDCo in conjunction with PARC's SAN DIEGO COUNTY TRAFFIC NET (SDCTN). (Norbert Seibert (SYSOP), 630-5538, Vista

To get into the Internet Gateway (submitted by Gail-KM6WF) use the following format:

sp inet@kc6lha.#soca.ca.usa.noam
subject: internet@address

1st three lines in the body of the message must contain the following:

To: internet@address
From: callsign@bbs.address
Full Name: Your full Name
then your message.

EXAMPLE

PACKET STARTS HERE

sp inet@kc6lha.#soca.ca.usa.noam
subject: easu624@rigel.oac.edu.ucf

To: easu624@rigel.oac.edu.ucf
From:urcall@w6nwg.#soca.ca.usa.noam
Full Name: your name

Hi Linda, hope you will make it to the next PARC meeting.

73, name

End your pkt message as you always do at PALBBS.

Remember that you use the FORMAT above and not the way you usually send internet messages since it is basically a PACKET message that is re-filed by KC6LHA as a INTERNET message which he then puts in the proper format for INTERNET.

Note that the 1st address gets the packet to KC6LHA with Linda's proposed address (subject). These two lines are then removed at KC6LHA and the message is sent on the Internet Gateway using the next three address lines. Note 2nd line of this address (From) indicates urname is at the W6NWG BBS. Do not use PALBBS. If PALBBS is not your home BBS, you are on your own.

This is for sending and receiving personal mail only. No bulletins, usenet, WWW, or gopher-mosaic type messages. You will receive a reply from KC6LHA that your message has been sent.

Linda, N6YZZ, is a student at UCI (Irvine) and has access to the internet thru UCI. Send her a message just for the FUN OF IT! =SK=

Some of W9FQN's favorite commands on PALBBS are:

<p W9FQN> which gives a listing of the last time he checked into PALBBS, where he is located, his home BBS, and what frequency he last used into PALBBS. This is good to see how active a ham is B4 U send him a message.

<pc W9FQN> gives you FCC information about the call W9FQN.

<l"heath"> which lists all of the bulletins on PALBBS which have HEATH in their subject line. HEATH is part of HEATHKIT Co, manufacturer of radio kits in the old days. I also like <l"net"> which brings up all subject lines with the word NET in them. This is a great way to search the 100's of messages for only those things of interest to you. If you are looking for an ICOM 2at HT you might try <l"icom"> for all ICOM listings or some variations of the following: <l"icom2">, <l"icom-2">, <l"ht"> or <l"2at">.

<l> of course gives you a listing of all categories on PALBBS if you are in the "expert" mode. =PARC=

- N E T S -

The following NETS need help IMMEDIATELY:

HAM HELP: need Net Controls to conduct the net once a month. No experience necessary. Just be able to read and find net members who can answer the questions asked. Contact Ivan-N60LQ on 147.130.

CODE NET: need Net Controls who can send code once a week or be a backup to a regular NC. Contact Stan-W9FQN on 147.130.

TRAFFIC NET: need Net Controls who are willing to run the traffic

net once a week. Need someone for Tuesday or Wednesday immediately. =PARC=

SK SK W6EYX, W6YLA, K6UV SK SK

ED WAY, W6EYX

died this past month. Ed was a well-known and respected ham from the Escondido area and was the first president of the EARS club. =SK=

RAYMOND YORK, W6YLA,

died January of this year. Jerry was recently instrumental in getting one of his buddies, Ray-N6UCH, from the 1941 Naval Training Station in San Diego back on the air. =SK=

F. KERNEIL BERNARDINI, K6UV

died August 31st.

Sometimes PARC does not learn of deaths until many months later unless a close ham friend sends us a notification. PARC would also appreciate knowing some of the background information concerning the deceased. =PARC=

W O R K P A R T I E S W9FQN

(01-22)#1 Bill-KB6MCU and Sybil-W6GIC went to the mountain to find a blown fuse in the ATV repeater. They also found a dead mouse in what we thought was a secure metal building. Do we have any "mice experts" in the club? Applications are being accepted.

(01-28)#2 Dave-KD6EBY check the batteries and temperature since last visit. Minimum outside 31.3 and inside building 56.1. Maximum was 61.2 and 72.5.

(02-22)#3 Mike-AB6QT installed a new controller in the 449.425 repeater and there was a problem in getting the PL mode to function properly so the old controller was re-installed until a complete test of the new system logic can be completed.

(02-24)#4 John-KD6CDH has finished the club's 386 computer. It has a 540 hard drive, 4Meg of memory, 3.5 disk drive, CD-ROM drive, 2-printer ports, and 2-com ports. Many of the parts were

furnished by numerous club members with Ted-KD6AKT finding many or items.

(02-26)#5 John-WB6IQS fired up one of the club's old TNC-2 packet units and then modified it per a diagram furnished by Paul-KB6MU to pass packets out of the TNC as they are being received so that we can use it on the 146.700(-) duplex repeater (our old RTTY repeater).

(03-05)#6 John-WB6IQS and Stan-W9FQN took the modified packet TNC-2 to the mountain in the rain. We passed boulders on the road as big as John's van and others much smaller from slides off the side of the mountain. There was 8.6" of rain during the night. The 146.7 repeater refused to repeat audio and even the local mic so the repeater was removed from the mountain to John's QTH where things would be warmer and drier.

The 224.38 repeater coax was checked and there was a 3:1 SWR going up to the antenna which will need to be looked into when the weather is better. After being home for several hours it was reported that the 224.38 repeater was not repeating and it appears that the pre-amp was not working.

(03-11)#7 Bill-KC6MCU wet to the site to do some ATV adjustments. =PARC=

***** NEWS *****

Art-KC6UQH, club president, has appointed David Doan, KC6YSO, and Bill Smith, KB6MCU, as primary delegates to SANDARC with himself and Stan Rohrer, W9FQN, as alternate delegates (1-23-95). =SK=

Nice article in the Vista papers about Tri-City Christian School contacting Endeavor space shuttle. Lawrence-KK6FX has been helping with the group and they will be talking to mission specialist Wendy Lawrence. =SK=

Jennifer-KM6WG/Mobile 3-21-95 used the autopatch to report a dog attacking another dog being walked by a woman in Vista. =SK=

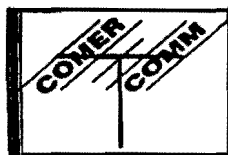
Be sure to WELCOME some of our new members to our repeaters. Some of them are still in school and would appreciate your contact. =SK=

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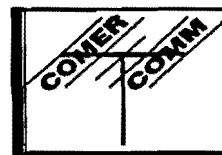


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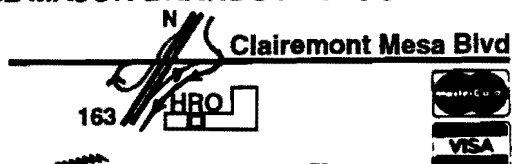
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conference room walls kept meetings from dragging on.

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

***** MAR. SCOPE FOLD/STAPLE *****

Editor: Stan-W9FQN 30311 Circle R Ln
Valley Center, CA 92082-4806

KI6JM Jack Hanthorn, Folding Refresh
WA6Y00 . Harry Hodges . Staples

W6TFB Lloyd & Lisbeth Hunt, Folding
N6TCB . Jerry Carter . Sorting

WA6UTQ . Larry Ruegseger Folding
KB6NMK . Jo Ashley . Labels

N6UWW . Ellen Utschig . Labels
KC6WAN, Ralph Powell, Printing, Labels

N6WQR Bernice Rosenberg Folding

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- P A R C B O A R D -

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Sec : David Doan . KC6YSO 2864888

Treas: Jennifer Thieme KM6WG 5991134

RptTec: John Kuivinen WB6IQS 7273876

SCOPE : Stan Rohrer . W9FQN 7490276

MemShp: Ralph Powell KC6WAN 7277415

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